Lineplots

Simple Line plot

```
stocks_apple <- stocks[which(stocks$company == "Apple"),]

ggplot(data = stocks_apple,

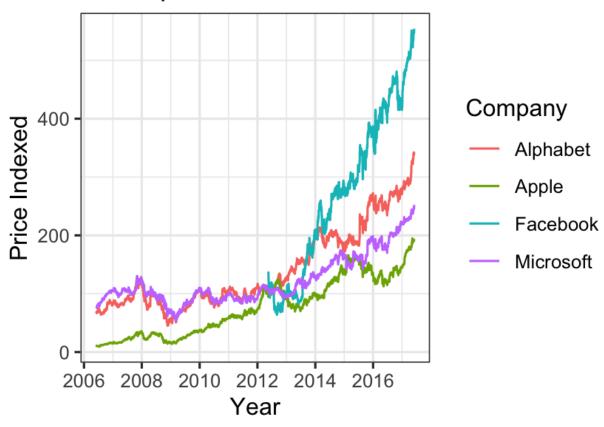
mapping = aes(x = date,
y = price_indexed)) +

geom_line()</pre>
```

Line Plot with different color for Each Group (Categorical Variable)

```
ggplot(data = stocks,
mapping = aes(x = date,
y = price_indexed,
color = company)) + geom_line() +
labs(x = "Year", y = "Price Indexed", color="Company") +
ggtitle("Stock price over time")
```

Stock price over time



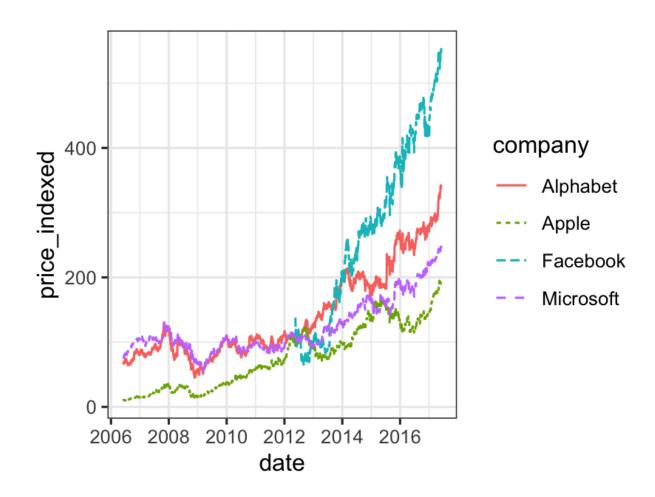
Line Plot with different color for Each group (Numeric Variable)

```
ggplot(data = mtcars,
mapping = aes(x = disp,
y = mpg,
color =
as.factor(cyl))) +
geom_point()
```

*Should add as.factor()

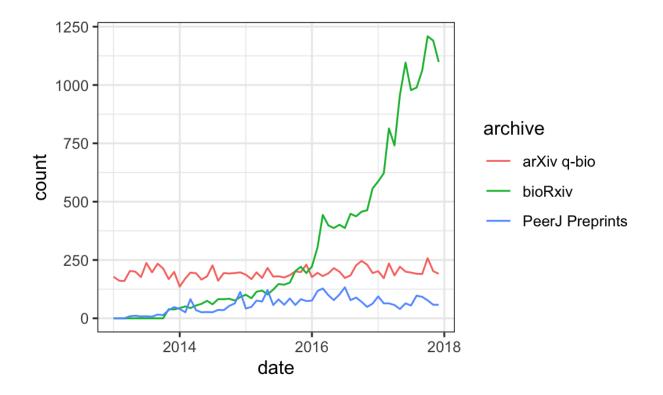
Redundant Coding

*We are using both linetype and color to encode same info , choose one!



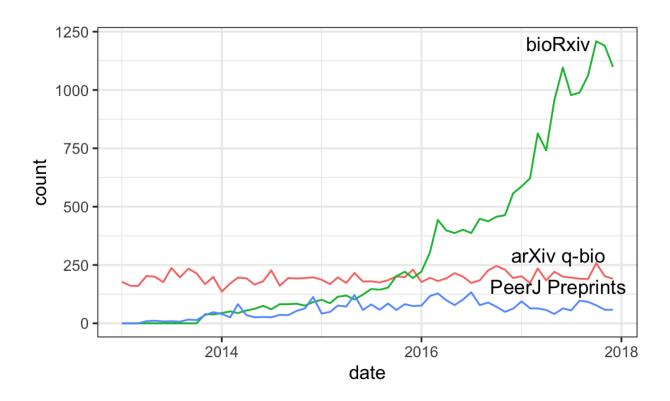
Line Plot

```
ggplot(data = economics,
mapping = aes(
x = date,
y = unemploy
)
) + geom_line()
```



Remove legend

```
ggplot(data = preprint_growth_filter,
    mapping = aes(
        x = date,
        y = count,
        color = archive
        )) + geom_line() +
geom_text(data=. %>%
            filter(date==max(date)),
            aes(label=archive),
            nudge_x=-200,
            nudge_y=100,
            color="black",
            size=4) + theme(legend.position="None")
```



Labeled

nudge_y = -1500, nudge_x=50,
min.segment.length = 0, size = 8/.pt, max.overlaps=nrow(econ

